

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

L & W QUARRIES, INC.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of

limestone, sand & gravel in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 189 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Scotland	22	64N	12W	58	0	58	Greensburg Quarry	0018
Clark	16	65N	07W	65	0	65	Kohoka Quarry	0020
Clark	21	65N	06W	66	0	66	Wayland Sand Plant	0019

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 15th day of October 2004



DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0008
Effective Date 10/15/2004
Expiration Date 08/31/2005

RECEIVED



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND RECLAMATION COMMISSION
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

AUG 30 2004

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL L&W Quarries, Inc.		DATE 7-28-2004	
ADDRESS 100 West Jackson P.O. Box 335	CITY Centerville	STATE IA	ZIP CODE 52544
CONTACT PERSON John R. Johnson		TELEPHONE NUMBER 641-437-4830	

FEES: COMPLETE SECTION I OR SECTION II**SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:**

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. Kahoka Quarry 0008	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
2. Wayland Sand 0008	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 300.00
3. Greensburg Quarry 0008	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ 150.00
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
TOTAL SITE FEE		\$ 750.00

2. Acreage Fee \$5 X 189 number of acres bonded \$ 945.00

3. Annual Permit Fee \$ 500

4. Total Fee (Add totals from 1, 2 and 3) \$ 2195.00

NOTE: If Total Fee exceeds \$2,500.00 then pay only \$ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee \$ 300

SIGNATURE OF APPLICANT <i>John R. Johnson</i>	TITLE C.E.O.	DATE 7-28-2004
Appeared before me this 28 day of July, 2004. John R. Johnson to me personally known, who executed the above as their free acts and deeds.		

NOTARY PUBLIC EMBOSSEER SEAL	STATE OF Iowa	COUNTY (OR CITY OF ST. LOUIS) Des Moines
	SUBSCRIBED AND SWORN BEFORE ME, THIS 28 day of August, YEAR 2004	USE RUBBER STAMP IN CLEAR AREA BELOW.
	NOTARY PUBLIC SIGNATURE <i>Linda K. Giffin</i>	MY COMMISSION EXPIRES 4-28-06
	NOTARY PUBLIC NAME (TYPED OR PRINTED) LINDA K GIFFIN	

FOR DEPARTMENT USE ONLY: APPROVED BY <i>K. R. Johnson</i>	DATE APPROVED 9-19-04	PERMIT NUMBER 0208	EXPIRATION DATE 8-31-05
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MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

51k #1

RECEIVED
JUN 14 1995
MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Greensburg Quarry #2		PERMIT NUMBER 0008
COMPANY NAME L & W Quarries Inc.		
COUNTY Scotland	1/4 SECTION	SECTION 22
TOWNSHIP 64N	RANGE 12W	ACRES 58
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A		
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) L & W Quarries Inc.		
ADDRESS Box 335		
CITY Centerville	STATE IA	ZIP CODE 52544
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input checked="" type="checkbox"/> OTHER (DESCRIBE): <u>own</u>		DATE OF AGREEMENT 4-28-95 Purchase
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <u>Same</u>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
JAN 19 1996

P.O. BOX 176
JEFFERSON CITY, MO 65102

MISSOURI LAND
RECLAMATION COMMISSION

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 2005

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY. #556 Greensburg Quarry

This property is primarily rolling hills covered with trees, shrubs and grasses. The land is used for pasture with a minimum of row crop farming. Topsoils range from 3-12 inches in depth. See attached map for property lines, affected areas and pre-law of mine, etc.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

3-12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

All topsoil and subsoil will be removed using scrapers and dozers (or trucks and excavators). This material will be placed over reclaimed areas or stockpiled for future reclamation. Topsoil removal operations will be conducted in such a manner as to minimize erosion.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil which is placed in storage will be identified on the maps provided. If placed in storage topsoil will be stabilized and seeded with grasses to protect it from erosion.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden removed from above the limestone will be returned to previously mined areas of the pit.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

A layer of shale at this site might be slightly acidic. This material will be returned to mined out areas of the pit and covered by other materials. This will be buried deep enough to ensure the acid does not hamper vegetation.

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

The map provided reflects the areas affected by the active mine, plant and stockpile areas. The mine will advance in the directions projected to be affected in the next permit year. The mine operations will not advance closer to property lines or right of way lines than permitted by existing regulations.

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1 #1	PURPOSE OR LAND USE Agricultural	B. SEEDING OR PLANTING TIME March 15-June 1: Aug 15-Oct 15; Dec 15 - Feb 15
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil has been placed on reclaimed areas, the soil will be worked with the appropriate tillage equipment to establish a seed bed. Seeding will be either broadcast or drilled or both to ensure germination. Seeding will be done in either spring, fall or winter.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue Red Clover Orchard Grass Wheat & Oats Crownvetch	20 lbs. 5 lbs. 15 lbs. 30 lbs. 5 lbs.		

VEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil is placed on reclaimed areas and worked with appropriate tillage equipment, the area will be seeded with conventional or hydroseeding equipment. Hydroseeding will be used for slopes exceeding 3:1.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue Red Clover White Clover Oats & Rye	20 lbs. 5 lbs. 5 lbs. 30 lbs.		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

MAY 31 2001

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND
RECLAMATION COMMISSION

All affected areas returned to agricultural will be graded to slopes traversable by farm machinery. Areas returned to wildlife may have slightly steeper slopes. Lakes of a few acres will be formed in the final pit area. The lake will meet guidelines established by M.DNR, S.C.S. and Mine Safety and Health Administration.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Final grading of final spoil placement will be accomplished within one year of placement.

REPLACEMENT OF TOPSOIL

All of the available top 12" of material will be replaced and worked with appropriate tillage equipment to reduce compaction and prepare the seed bed.

REVEGETATION

Affected areas will be seeded within 12 months after completion of grading.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

30

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

7

Water impoundments (for wildlife, agricultural, or development)

21

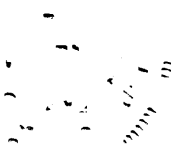
RECEIVED

MAY 31 2001

MISSOURI LAND
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Douglas P Bailey</i>		TITLE <i>vice-president</i>	DATE <i>5/30/2001</i>
NOTARY PUBLIC EMBOSSEMENT SEAL 	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Cole</i>	
	SUBSCRIBED AND SWORN BEFORE ME THIS <i>31st</i> DAY OF <i>May</i> <i>2001</i>		USE RUBBER STAMP IN CLEAR AREA BELOW SHIRLEY L. GRANTHAM NOTARY PUBLIC STATE OF MISSOURI COUNTY OF COLE MY COMMISSION EXPIRES: FEBRUARY 7, 2003
	NOTARY PUBLIC SIGNATURE <i>Shirley L. Grantham</i>	MY COMMISSION EXPIRES <i>2/7/03</i>	
NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Shirley L. Grantham</i>			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>[Signature]</i>		DATE APPROVED <i>5-31-01</i>	PERMIT NUMBER <i>0008</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
MAY 31 2001
MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <i>Kahoka Quarry</i>		PERMIT NUMBER <i>0008</i>	
COMPANY NAME <i>L & W Quarries Inc.</i>			
COUNTY <i>Clark</i>	1/4 SECTION		SECTION <i>16, 17</i>
TOWNSHIP <i>65N</i>	RANGE <i>07W</i>		ACRES <i>300</i>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) <i>N/A</i>			
MINERAL COMMODITY <i>Limestone</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>PM J Properties</i>		
ADDRESS <i>657 Harwood Dr.</i>		
CITY <i>Des Moines</i>	STATE <i>Ia.</i>	ZIP CODE <i>50312</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): <i>assigned 4-28-95</i>		DATE OF AGREEMENT <i>2-29-84</i>
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <i>same</i>		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
JAN 19 1990

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 2005

MISSOURI LAND
RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

#558 Kahoka Quarry

This plan covers approximately 300 acres of the 438 acres that are leased. This property is primarily rolling hills covered with trees, shrubs and grasses. The land is used for pasture with a minimum of row crop farming. Topsoils range from 3-12 inches in depth. See attached map for property lines, affected areas and pre-law area of mine, etc.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

3-12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

All topsoil and subsoil will be removed using scrapers and dozers (or trucks and excavators). This material will be placed over reclaimed areas or stockpiled for future reclamation. Topsoil removal operations will be conducted in such a manner as to minimize erosion.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil which is placed in storage will be identified on the maps provided. If placed in storage topsoil will be stabilized and seeded with grasses to protect it from erosion.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Rubber tired scrapers remove the spoil to the usable limestone and the spoil is used for reclamation in mined out area where feasible. The future plan is to continue to strip and mine the limestone in a southerly and easterly direction from the present operating quarry.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

Not applicable.

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

The pit area of the quarry is approximately 1200 feet long and 1000 feet wide. The stockpile area is approximately 1000 feet long and 450 feet wide. The reclaimed area is approximately 12 acres by ASCS measurement.

YES	NO
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>

☐ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1

#1

PURPOSE OR LAND USE

Agricultural

B. SEEDING OR PLANTING TIME

March 15-June 1; Aug. 15-Oct 15; Dec. 15-Feb. 15

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil has been placed on reclaimed areas, the soil will be worked with the appropriate tillage equipment to establish a seed bed. Seed will be either broadcast or drilled or both to ensure germination. Seeding will be done in either spring, fall or winter.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20 lbs.		
Red Clover	5 lbs.		
Orchard Grass	15 lbs.		
Wheat & Oats	30 lbs.		
Crownvetch	5 lbs.		

VEGETATION MIX #2

#2

PURPOSE OR LAND USE

Agricultural

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After topsoil is placed on reclaimed areas and worked with appropriate tillage equipment, the area will be seeded with conventional or hydroseeding equipment. Hydroseeding will be used for slopes exceeding 3:1.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20 lbs.		
Red Clover	5 lbs.		
White Clover	5 lbs.		
Oats & Rye	30 lbs.		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All affected areas returned to agricultural will be graded to slopes traversable by farm machinery. Areas returned to wildlife may have slightly steeper slopes. A lake of a few acres will be formed in the final pit area. The lake will meet guidelines established by MO DNR, S-C.S. and Mine Safety and Health Administration.

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AUG 20 2001

MISSOURI LAND
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Final grading of final spoil placement will be accomplished within one year of placement.

REPLACEMENT OF TOPSOIL

All of the available top 12" of material will be replaced and worked with appropriate tillage equipment to reduce compaction and prepare the seed bed.

REVEGETATION

Affected areas will be seeded within 12 months after completion of grading.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

253

Agricultural (pasture, cropland, and horticultural)

0

Development (residential, industrial, and recreational)

37

Water impoundments (for wildlife, agricultural, or development)

10


By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED

JUL 12 2001

MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT <i>Douglas P. Bailey</i>		TITLE vice-president	DATE July 10, 2001
NOTARY PUBLIC EMBOSSEER SEAL	STATE IOWA	COUNTY (OR CITY OF ST. LOUIS) Appanoose	
SUBSCRIBED AND SWORN BEFORE ME THIS 10 TH DAY OF June 19 2001		USE RUBBER STAMP IN CLEAR AREA BELOW	
NOTARY PUBLIC SIGNATURE <i>Dorothy Bendick</i>		MY COMMISSION EXPIRES 12-28-02	
NOTARY PUBLIC NAME (TYPED OR PRINTED) Dorothy Bendick			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>[Signature]</i>	DATE APPROVED 9-13-01	PERMIT NUMBER 0008	



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
AUG 30 1995

To be completed for each separate area of disturbance associated with mining operations

SITE NAME OR NUMBER <i>Wayland Sand Plant</i>		PERMIT NUMBER <i>0008</i>
COMPANY NAME <i>LFW Quarries Inc.</i>		
COUNTY <i>Clark</i>	1/4 SECTION	SECTION <i>21</i>
TOWNSHIP <i>65 N</i>	RANGE <i>06 W</i>	ACRES <i>66</i>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) <i>N/A</i>		
MINERAL COMMODITY <i>Sand & gravel</i>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) <i>50,000</i>

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <i>PMJ Properties</i>		
ADDRESS <i>657 Harwood Drive</i>		
CITY <i>Des Moines</i>	STATE <i>Iowa</i>	ZIP CODE <i>50312</i>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): <i>assigned 4-28-95</i>		DATE OF AGREEMENT 2-29-84 <i>4-28-95</i>
<input checked="" type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE):		DATE OF AGREEMENT
<input type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

COMPANY NAME LFW Quarries

☒ LONG TERM, FOR PERIOD THROUGH DATE: 8/31/2025

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Wayland Sand Plant

This plan covers approximately ⁶⁶~~50~~ acres in the long term plan. ^{DB 8/30/99}
The area was level very poor sandy pasture prior to operation

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil is removed using rubber tire scrapers or articulated trucks and excavators.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Trucks and/or scrapers will place topsoil on reclaimed areas or in perimeter berms.

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B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All materials removed to make specification material is stockpiled or returned to previously dredged out area with the water return to the lake area.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

N/A

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

see detail map

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YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1

PURPOSE OR LAND USE

Wildlife

B. SEEDING OR PLANTING TIME

March - June Sept. - Nov.

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Broadcast seeding will be done on all areas where needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass	15 lbs	Willow trees	100 /acre
Oats	30 lbs		
White Clover	5 lbs		
Timothy	10 lbs.		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

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ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

This site will be a 35 acre lake surrounded by 20 acres of wildlife habitat. All slopes will be graded 3 to 1 slope or less.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

All inactive areas will be graded within 12 months according to Missouri Department of Natural Resources rule 10 CSR 40-10.050(10)

REPLACEMENT OF TOPSOIL

Topsoil will be replaced within 12 months on all graded, inactive areas.

REVEGETATION

Seeding will be done on all topsoiled areas within 24 months of an area becoming inactive.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

20

Agricultural (pasture, cropland, and horticultural)

0

Development (residential, industrial, and recreational)

0

Water impoundments (for wildlife, agricultural, or development)

35 46 08
8/30/99

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By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT <i>Douglas P Bailey</i>		TITLE <i>Vice-president</i>	DATE <i>August 30, 1999</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>Missouri</i>	COUNTY (OR CITY OF ST. LOUIS) <i>Cole</i>	
	SUBSCRIBED AND SWORN BEFORE ME THIS <i>30th</i> DAY OF <i>August</i> 19 <i>99</i>		USE RUBBER STAMP IN CLEAR AREA BELOW SHIRLEY L. GRANTHAM NOTARY PUBLIC STATE OF MISSOURI COUNTY OF COLE MY COMMISSION EXPIRES: FEBRUARY 7, 2003
	NOTARY PUBLIC SIGNATURE <i>Shirley L. Grantham</i>	MY COMMISSION EXPIRES <i>2/7/2003</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Shirley L. Grantham</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Ruth B</i>		DATE APPROVED <i>12-10-99</i>	PERMIT NUMBER <i>0008</i>



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT TRANSFER

RECEIVED
JUN 14 1995

BOX 176
JEFFERSON CITY, MO 65102

PERMIT TRANSFER (FOR TRANSFERRING PERMITTED ACRES FROM ONE OPERATOR TO ANOTHER, WITH NO CHANGES IN MINE PLAN OR ACREAGE)

NAME OF CURRENT PERMIT HOLDER
Kaser Corporation/Martin Marietta Materials, Inc.

PERMIT NUMBER
008

SITE(S)
Greensburg Quarry, Kahoka Quarry, Wayland Sand

ADDRESS
4554 NW 114th Street

CITY
Des Moines,

STATE
Iowa

ZIP CODE
50322

CONTACT PERSON
Gerard J. Gregg

PHONE NUMBER
515-254-0030

TO BE COMPLETED BY THE CURRENT PERMIT HOLDER

List all reclamation bonds which are held on this permit

BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
General Insurance Company of America	5706766	02/10/94	63,500

TO BE COMPLETED BY PROPOSED SUCCESSOR

NAME OF PROPOSED SUCCESSOR
L & W Quarries, Inc.

ADDRESS
P.O. Box 335

CITY
Centerville

STATE
IA

ZIP CODE
52544

CONTACT PERSON
Doug Bailey / or Bob Brill (319) 753-5858

TELEPHONE NUMBER
(515) 437-4830

List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor.

NAME OF COMPANY	PERMIT NUMBER	MINERAL

NOTE: The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.

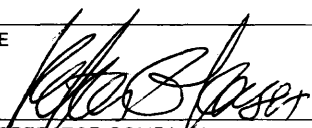
TRANSFER OF RECLAMATION RESPONSIBILITY

In consideration of receiving the right to surface mine for aggregates (MINERAL) , on the land covered by Missouri Surface Mining Permit Number 008 , which consists of 119 acres located in SectionS 22,16,21 , TownshipS T64N, T65N, T65N , RangeS R12W, R6W, R7W Scotland, Clark County, Missouri, _____ ,
(PROPOSED SUCCESSOR)
a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Kaser Corporation/Martin Marietta Materials, Inc.
FORMER OPERATOR

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

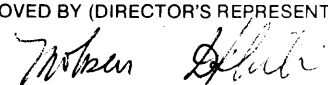
Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE	NAME	TITLE
PROPOSED SUCCESSOR COMPANY		DATE
SIGNATURE 	NAME Peter G. Kaser	TITLE President
CURRENT OPERATOR COMPANY Kaser Corporation/Martin Marietta Materials, Inc.		DATE May 24, 1995

Appeared before me this _____ day of _____, 19____, _____ to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)	
	SUBSCRIBED AND SWORN BEFORE ME, THIS DAY OF _____ 19____		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES	
	NOTARY PUBLIC NAME (TYPED OR PRINTED)		

APPROVED BY (DIRECTOR'S REPRESENTATIVE) 	TITLE CRS	DATE APPROVED 1-23-96
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RECEIVED
JUN 14 1995

MISSOURI LAND
RECLAMATION COMMISSION

TRANSFER OF RECLAMATION RESPONSIBILITY



In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 0008, which consists of 58 acres located in Section 22, Township 64N, Range 12W, Scotland County, Missouri, L & W Quarries Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Kaser Corporation/Martin Marietta Materials Inc (FORMER OPERATOR)

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME <u>Johnny R. Johnson</u>	TITLE <u>President</u>
PROPOSED SUCCESSOR COMPANY <u>L & W Quarries Inc.</u>		DATE <u>5/24/95</u>
SIGNATURE 	NAME <u>PETER G. KASER</u>	TITLE <u>PRESIDENT KASER CORP.</u>
CURRENT OPERATOR COMPANY <u>Kaser Corporation/Martin Marietta Materials Inc.</u>		DATE <u>5/24/95</u>

Appeared before me this 24 day of May, 19 95, Peter A. Kaser to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>Iowa</u>	COUNTY (OR CITY OF ST. LOUIS)
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>24</u> DAY OF <u>May</u> , 19 <u>95</u>	
	NOTARY PUBLIC SIGNATURE <u>Robert A. Brill</u>	MY COMMISSION EXPIRES <u>4-1-96</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Robert G. Brill</u>	

APPROVED BY (DIRECTOR'S REPRESENTATIVE) 	TITLE <u>URS</u>	DATE APPROVED <u>1-23-96</u>
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MO-Land Rec 003

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JUN 14 1995

TRANSFER OF RECLAMATION RESPONSIBILITY

MISSOURI LAND RECLAMATION COMMISSION

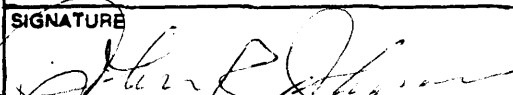
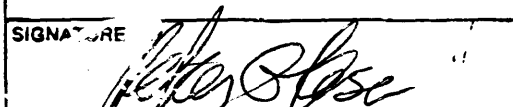
In consideration of receiving the right to surface mine for Sand and Gravel (MINERAL), on the land covered by Missouri Surface Mining Permit Number 0008, which consists of 6 acres located in Section 21, Township 65N, Range 06W, Clark County, Missouri, L & W Quarries Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Kaser Corporation/Martin Marietta Materials Inc. (FORMER OPERATOR)

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

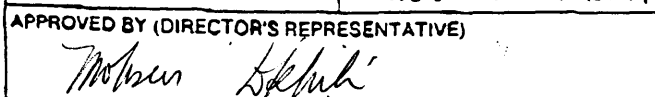
Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME Johnny R. Johnson	TITLE President
PROPOSED SUCCESSOR COMPANY L & W Quarries Inc.		DATE 5/24/95
SIGNATURE 	NAME PETER G. KASER	TITLE PRESIDENT KASER CORP.
CURRENT OPERATOR COMPANY Kaser Corporation/Martin Marietta Materials Inc.		DATE 5/24/95

Appeared before me this 24 day of May, 19 95, Peter G. Kaser to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>Iowa</u>	COUNTY (OR CITY OF ST. LOUIS)
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>24</u> DAY OF <u>May</u> , 19 <u>95</u>	
	NOTARY PUBLIC SIGNATURE <u>Robert A. Brill</u>	MY COMMISSION EXPIRES <u>4-8-96</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Robert G. Brill</u>	
USE RUBBER STAMP IN CLEAR AREA BELOW		

APPROVED BY (DIRECTOR'S REPRESENTATIVE) 	TITLE <u>LRS</u>	DATE APPROVED <u>1-23-96</u>
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RECEIVED
JUN 14 1995

TRANSFER OF RECLAMATION RESPONSIBILITY

MISSOURI LAND
RECLAMATION COMMISSION

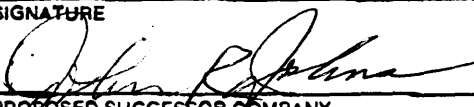
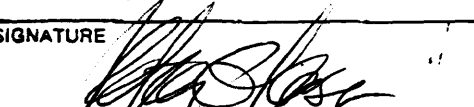
In consideration of receiving the right to surface mine for Limestone (MINERAL), on the land covered by Missouri Surface Mining Permit Number 0008, which consists of 55 acres located in Section 16, Township 65N, Range 07W, Clark County, Missouri, L & W Quarries Inc. (PROPOSED SUCCESSOR)

a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Kaser Corporation/Martin Marietta Materials Inc (FORMER OPERATOR)

All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990).

Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program.

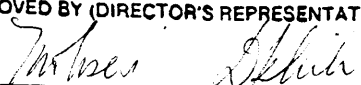
The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility.

SIGNATURE 	NAME <u>Johnny R. Johnson</u>	TITLE <u>President</u>
PROPOSED SUCCESSOR COMPANY <u>L & W Quarries Inc.</u>		DATE <u>5/24/95</u>
SIGNATURE 	NAME <u>PETER G. KASER</u>	TITLE <u>KASER CORP, PRESIDENT</u>
CURRENT OPERATOR COMPANY <u>Kaser Corporation/ Martin Marietta Materials, Inc.</u>		DATE <u>5/29/95</u>

Appeared before me this 24 day of May, 19 95, Peter A Kaser to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSEER SEAL	STATE <u>Iowa</u>	COUNTY (OR CITY OF ST. LOUIS)
	SUBSCRIBED AND SWORN BEFORE ME, THIS <u>24</u> DAY OF <u>May</u> , 19 <u>95</u>	
	NOTARY PUBLIC SIGNATURE <u>Robert A Brill</u>	MY COMMISSION EXPIRES <u>4-8-96</u>
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <u>Robert G. Brill</u>	

USE RUBBER STAMP IN CLEAR AREA BELOW

APPROVED BY (DIRECTOR'S REPRESENTATIVE) 	TITLE <u>CRS</u>	DATE APPROVED <u>1-23-96</u>
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MAP NO. 17 16
01-09-04 20 21

CLARK

STATE LINE ————
COUNTY LINE ————
TOWNSHIP LINE ————
SECTION LINE ————

AREA (FROM DEED) 25.00 Ac.
AREA (CALCULATED) 25.00 Ac.(c)
DIMENSION (FROM DEED) 630.45'
DIMENSION (SCALED) 630.0'(s)

Water

SUBDIVISION INDEX

SUBD. NO.	SUBDIVISION NAME	PLAT BOOK	PAGE
	L & W Quarries		
	Wayland Sand Plant		
	permit # 0008		
	Douglas P. Bailey 8/30/59		

1"=400'

THIS OWNERSHIP MAP WAS PREPARED
UNDER THE DIRECTION OF
STATE TAX COMMISSION OF MISSOURI
THE CLARK COUNTY

RECEIVED
AUG 30 1959
MISSOURI LAND

North

4/18/02

by Doug Smith

LEW Quarry

Kahoka Quarry

Map Room Printout

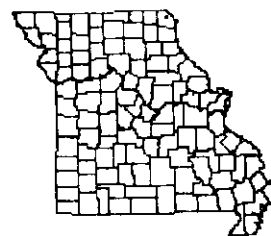


Legend

County boundaries

—	long term mine plan	300 acres
•	Industrial	37 acres
•	Water	10 acres
—	Wildlife	253 acres
—	permit area	55 acres
•	New stripping	10 A

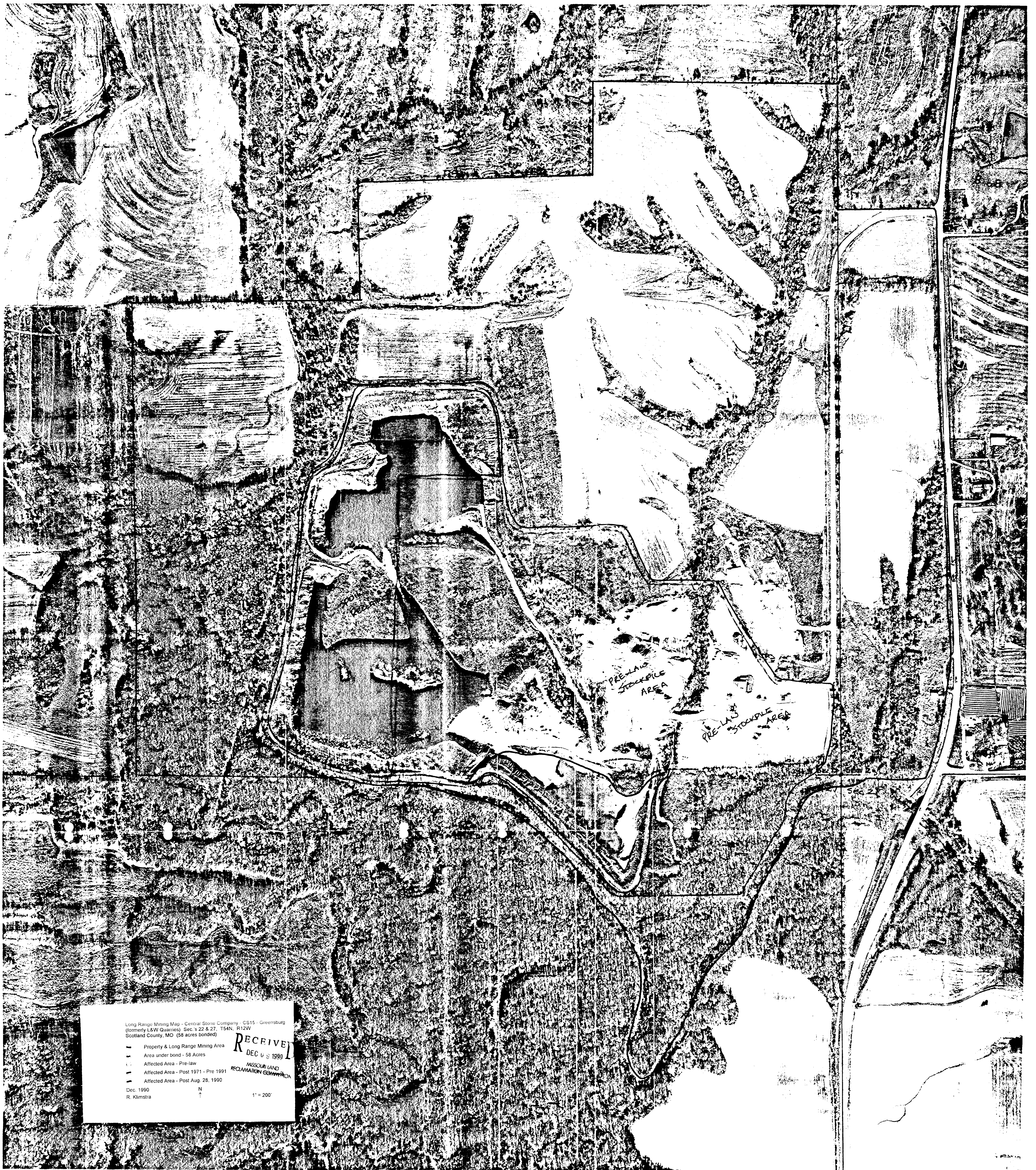
Prepared at the CARES Map Room: <http://maps.cares.missouri.edu/maproom>.
Please see the website for data sources. May 31, 2001



0 500 1000 Feet



Center for Agricultural,
Resource and
Environmental Systems
University of Missouri



Map Room Printout



Legend

County boundaries

Long term mine plan 300 acres

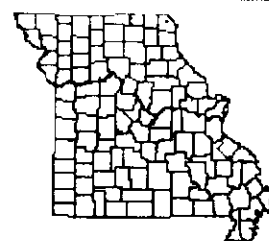
Industrial 37 acres

Water 10 acres

253 acres

Wildlife

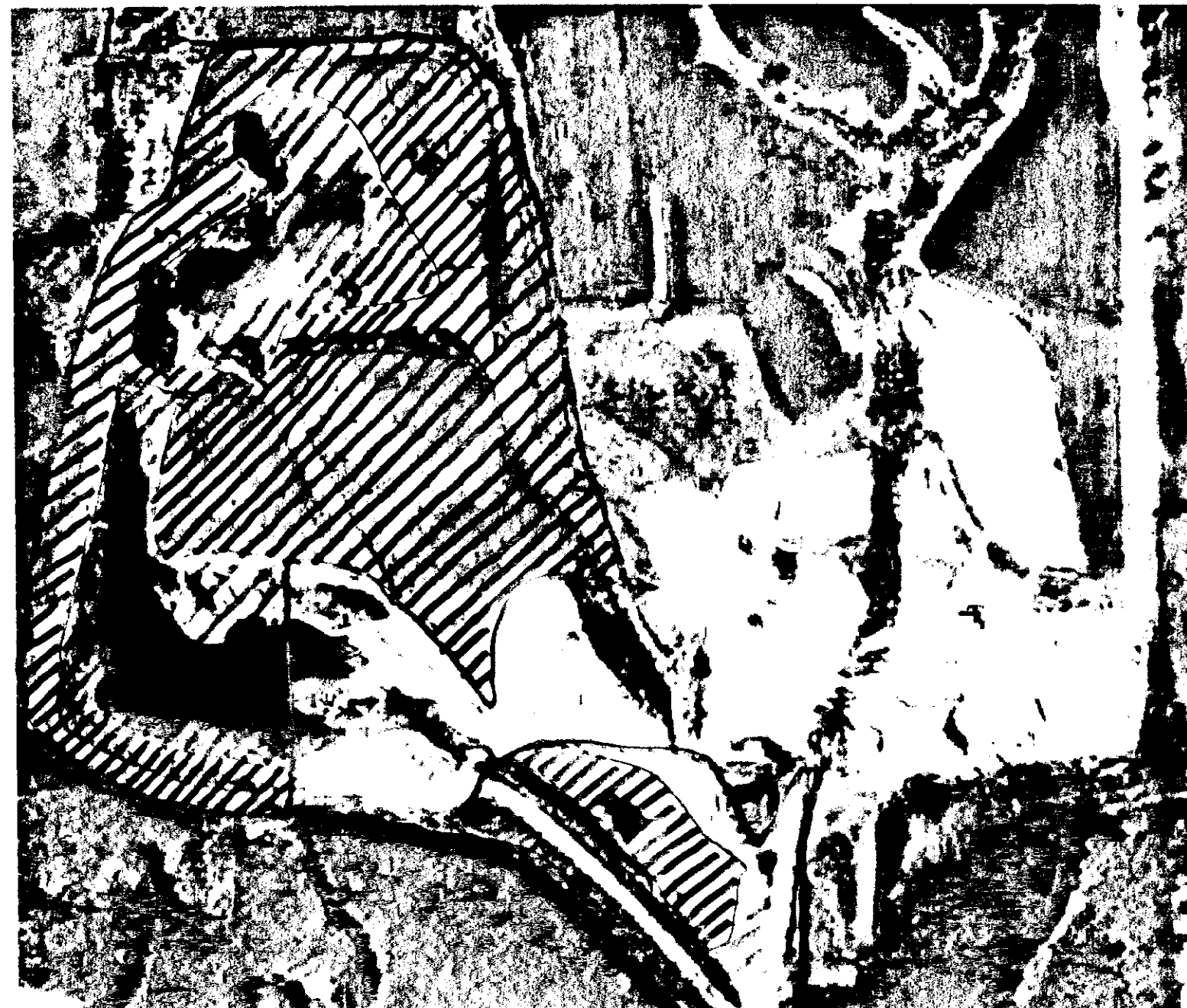
permit area 55 acres



0 500 1000 Feet



Center for Agricultural,
Resource and
Environmental Systems
University of Missouri



- Water 21 A

- Wildlife 30 A

7 A

- Permit Boundary 58 A
+ long term mine plan

RECEIVED

MAY 31 2001

MISSOURI LAND
RECLAMATION COMMISSION

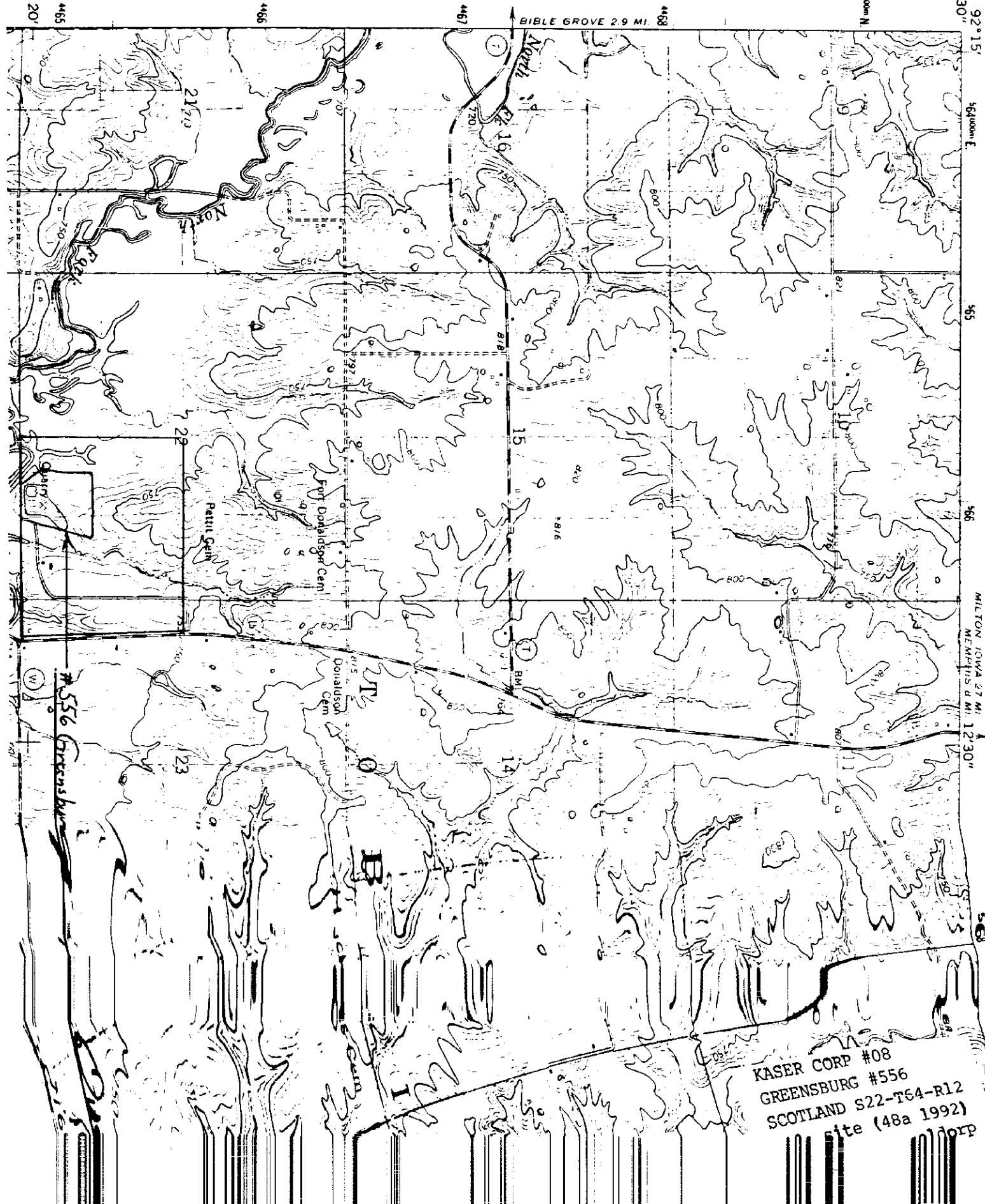
LFW Quarries Inc.

Permit #0008

Greensburg Quarry

By: Doug Bailey

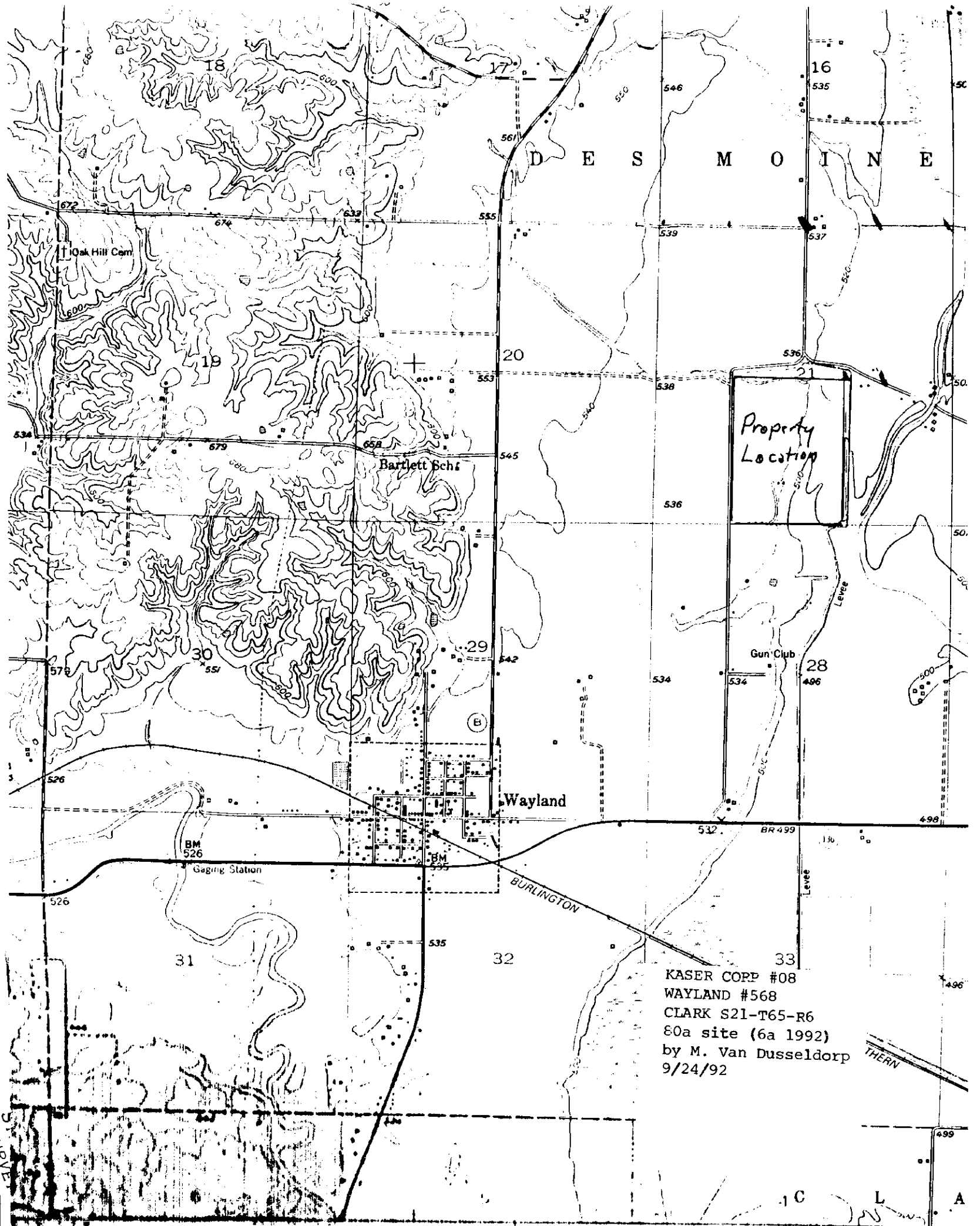
scale 1" = 440'



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

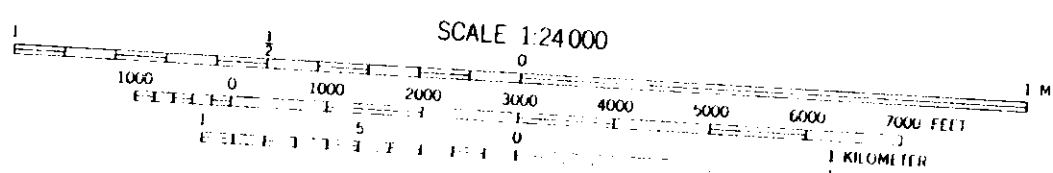
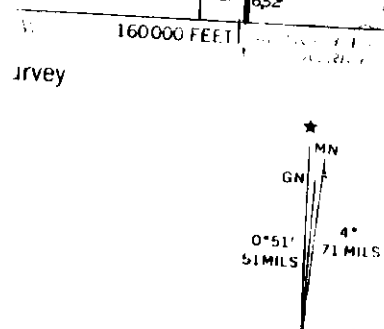
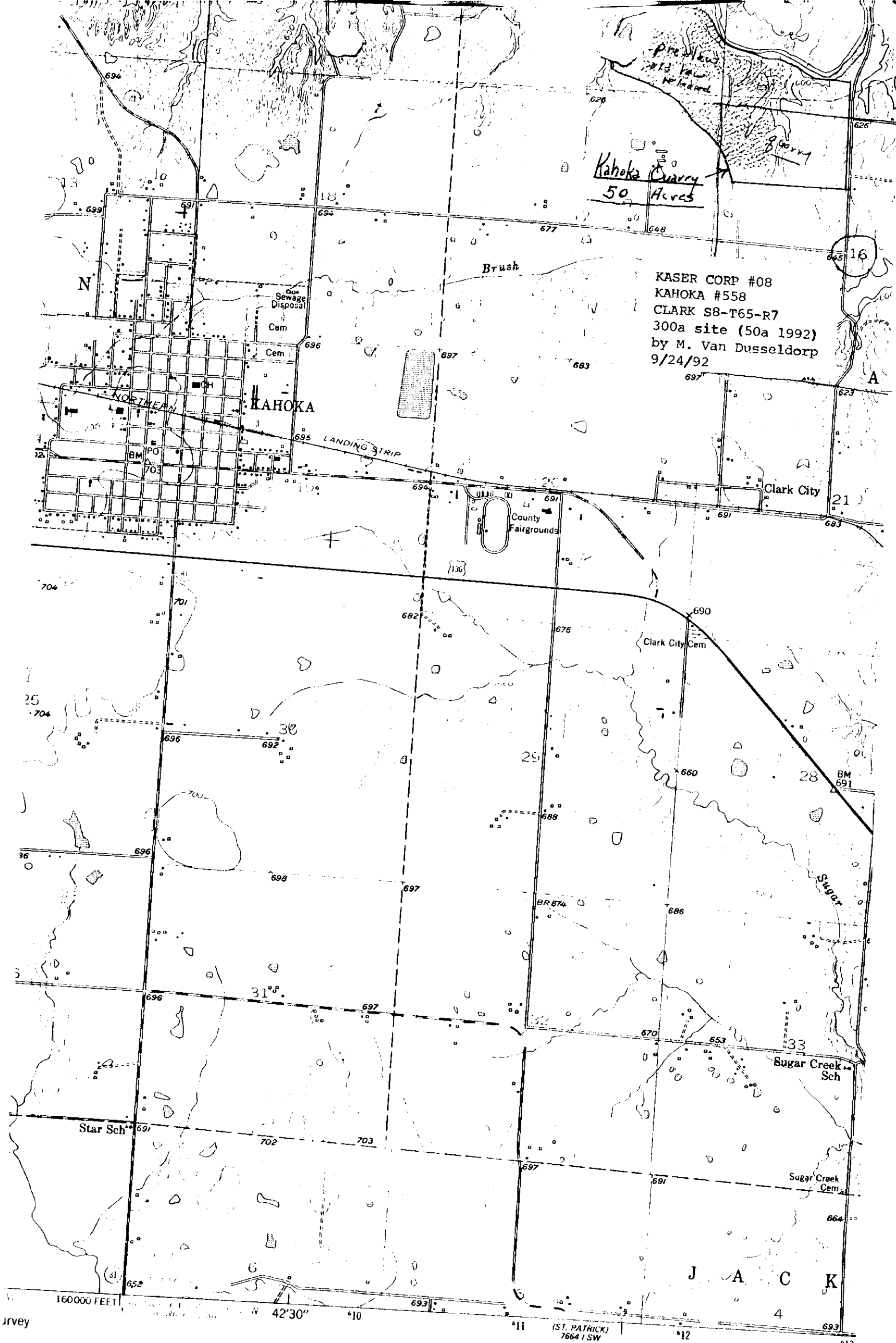
GEOLOGICAL SURVEY
WILLIAM C. HAYES

KASER CORP #08
GREENSBURG #556
SCOTLAND S22-T64-R12
site (48a 1992)



KASER CORP #08
WAYLAND #568
CLARK S21-T65-R6
80a site (6a 1992)
by M. Van Dusseldorp
9/24/92

Property Location



CONTOUR INTERVAL 20 FEET